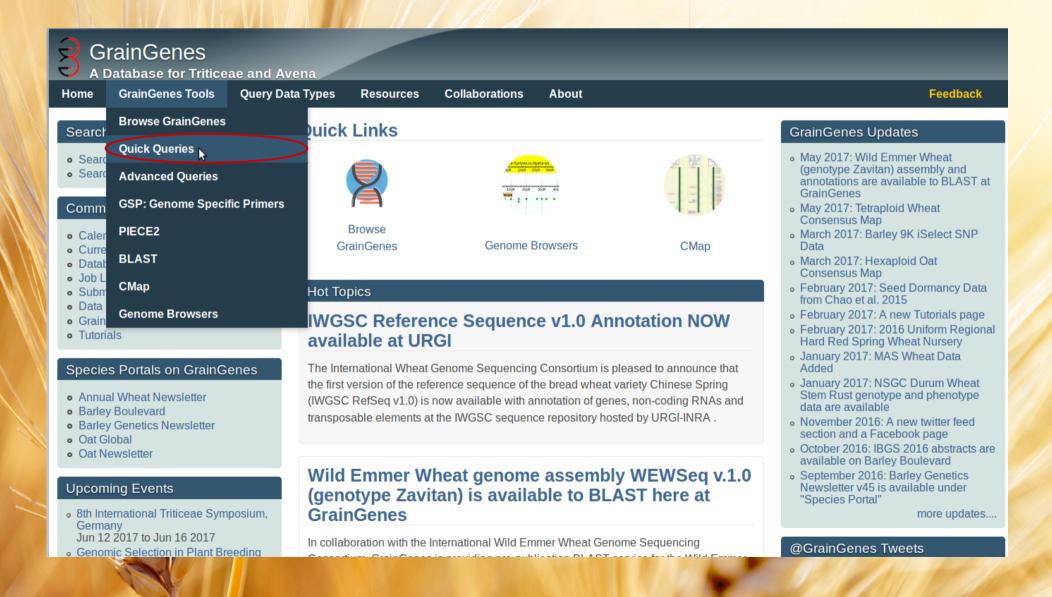
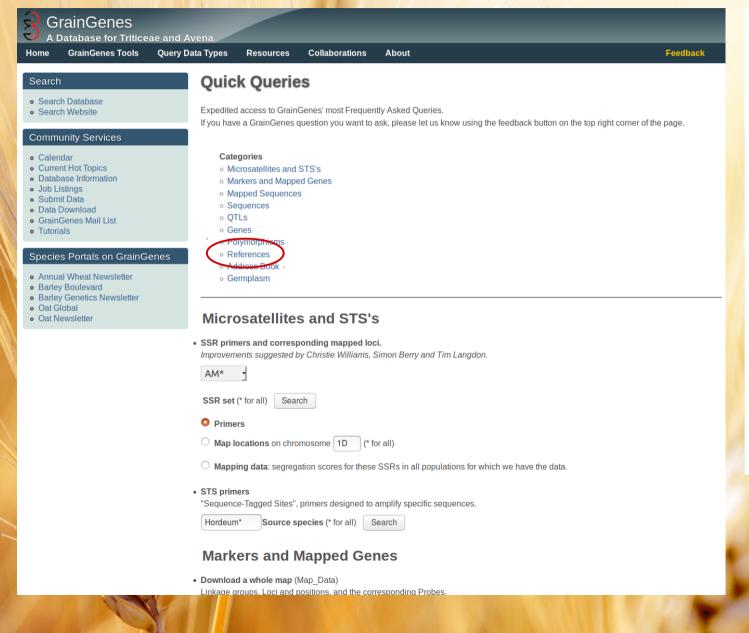


# Quick Queries can be accessed from the GrainGenes Tools dropdown menu



## **Quick Queries**



- The Quick Queries page contains premade queries for common database searches
- At the top of the page is a list of categories for searches
- Clicking on one will navigate you to the corresponding part of the page
- For this tutorial, we will use the References Quick Query

### Quick Queries -References

#### References

Search

References			
Search by Author, Keyword, and/or Date. (Author and Keyword can be left blank. "since" must be a number.)			
Anderson* Author			
glutenin Keyword, since			
1980 Search			
Search reference titles and keywords. Suggested by Victoria Carollo.			
"OR" search			
Keyword 1 only			
Keyword 2			
Keyword 1 or 2 or 3			
Keyword 1 or 2 or 3 or 4			
Keyword 1 or 2 or 3 or 4 or 5			
Search			
"AND" search			
Keyword 1			
Keyword 2			
Keywords 1 and 2 and 3			
Keywords 1 and 2 and 3 and 4			
Keyword 5			

- Finding specific publications of interests an be difficult in the GrainGenes database browser because all articles are listed under their reference ids.
   Without knowing the id, locating a specific paper is difficult
- The References Quick Query allows you to search through publications in GrainGenes by topic, authors, and year of publication
- The "AND" and "OR" searches allow the use of multiple keywords in your search

### Quick Queries -References

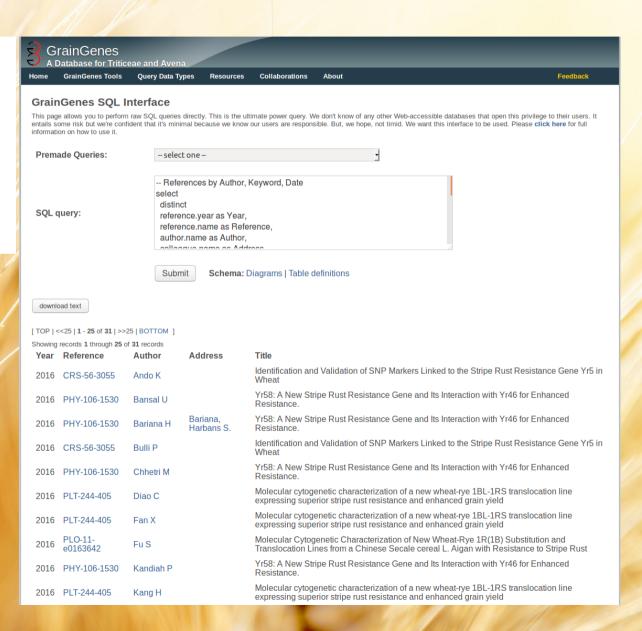
#### References

Search by Author, Keyword, and/or Date.
 (Author and Keyword can be left blank. "since" must be a number.)



Search reference titles and keywords.
 Suggested by Victoria Carollo.

- For example, we can search for articles on stripe rust that have been published since 2016
- Enter 'stripe rust' as a keyword and 2016 as the years and click Search
- Our results are then pulled up in a page like the one on the right



### Quick Queries -References Results

GrainGenes

Premade Oueries:

**GrainGenes SQL Interface** 

This page allows you to perform raw SOL queries directly. This is the ultimate power query. We don't know of any other Web-accessible databases that onen this privilege to their users. It entails some risk but we're confident that it's minimal because we know our users are responsible. But, we hope, not timid. We want this interface to be used. Please click here for full

-- References by Author, Keyword, Date

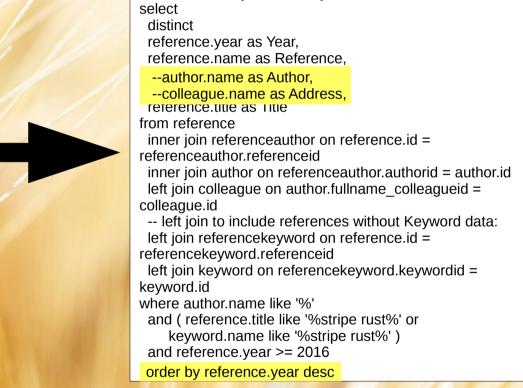
select

- The Results Page shows the output of our query, all articles that matched our search terms
- The actual SQL query with which we searched the GrainGenes. database is shown in the box above our results
- There are some repeats in the is listed for each of its authors.
- To consolidate them, we can



## Quick Queries -Adjusting the Query

-- References by Author, Keyword, Date select distinct reference.year as Year, reference.name as Reference. author.name as Author, colleague.name as Address, reference, title as Title from reference inner join referenceauthor on reference.id = referenceauthor, reference id inner join author on referenceauthor.authorid = author.id left join colleague on author.fullname colleagueid = colleague.id -- left join to include references without Keyword data: left join referencekeyword on reference.id = referencekeyword.referenceid left join keyword on referencekeyword.keywordid = keyword.id where author name like '%' and (reference.title like '%stripe rust%' or keyword.name like '%stripe rust%') and reference.year >= 2016 order by reference, vear desc. author, name



-- References by Author, Keyword, Date



The above edits to the SQL query (commenting out author.name as Author, and colleague.name as Address, and removing ', author.name' from the 'order by' statement will output a consolidated list of papers on stripe rust contained in GrainGenes that have been published since 2016

## Quick Queries -**Adjusted Results**

#### **GrainGenes SOL Interface**

This page allows you to perform raw SOL gueries directly. This is the ultimate power guery. We don't know of any other Web-accessible databases that open this privilege to their users. It entails some risk but we're confident that it's minimal because we know our users are responsible. But, we hope, not timid. We want this interface to be used. Please click here for full

**Premade Queries:** 

- select one -

-- References by Author, Keyword, Date

select

distinct

SQL query: reference.year as Year,

reference.name as Reference.

- author.name as Author. colleggue name as Addres

Submit

Schema: Diagrams | Table definitions

download text

Showing records 1 through 4 of 4 records

Year	Reference	Title
------	-----------	-------

2016 PHY-106-1530 Yr58: A New Stripe Rust Resistance Gene and Its Interaction with Yr46 for Enhanced Resistance.

2016 PLT-244-405

Molecular cytogenetic characterization of a new wheat-rye 1BL-1RS translocation line expressing superior stripe rust

resistance and enhanced grain yield

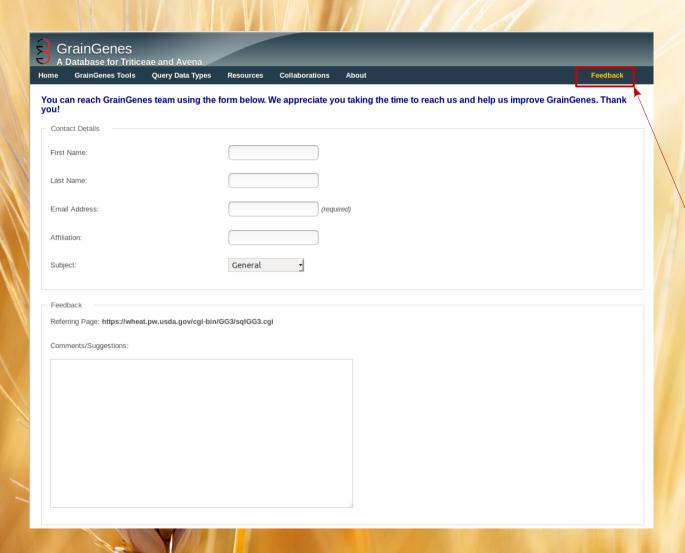
PLO-11-Molecular Cytogenetic Characterization of New Wheat-Rye 1R(1B) Substitution and Translocation Lines from a Chinese 2016 e0163642

Secale cereal L. Aigan with Resistance to Stripe Rust

2016 CRS-56-3055 Identification and Validation of SNP Markers Linked to the Stripe Rust Resistance Gene Yr5 in Wheat

- By hitting Submit again, we can get the adjusted results
- There are currently four papers on stripe rust in GrainGenes
- By clicking on the Reference ID, you can see the Reference Report page for each paper
- New references are being added to GrainGenes daily!

#### Feedback



- If you have any questions, have suggestions for new Quick Queries, want to submit your data to GrainGenes, or anything else, please contact us!
- Our Feedback button is at the top right corner of every page, and we'd love the hear from you!